

0073505

W05134

REPORT COVER PAGE	1
CASE NARRATIVE	2
SAMPLE RESULTS SUMMARY	7
DATA REVIEW CHECKLIST/NCM	20
CHAIN OF CUSTODY	28
SAMPLE PREP ANALYSIS SHEETS.....	31
ICOC	50



RECEIVED
AUG 01 2007
EDMC

Analytical Data Package Prepared For
Fluor Hanford Inc.

Radiochemical Analysis By
STL Richland

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: STLRL
Data Package Contains _____ Pages

Report No.: 34843

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W05134	R07-007	B1ML91	J7C080251-1	JQNR31AA	9JQNR310	7067495
		B1ML91	J7C080251-1	JQNR33AD	9JQNR330	7100160
		B1ML92	J7C080251-2	JQNTE1AA	9JQNTE10	7067495
		B1ML92	J7C080251-2	JQNTE3AD	9JQNTE30	7100160
		B1ML93	J7C080251-3	JQNTH1AA	9JQNTH10	7067495
		B1ML93	J7C080251-3	JQNTH3AD	9JQNTH30	7100160
		B1ML94	J7C080251-4	JQNTM1AA	9JQNTM10	7067495
		B1ML94	J7C080251-4	JQNTM3AD	9JQNTM30	7100160
		B1ML95	J7C080251-5	JQNTQ1AA	9JQNTQ10	7067495
		B1ML95	J7C080251-5	JQNTQ3AD	9JQNTQ30	7100160
		B1ML96	J7C080251-6	JQNTT1AA	9JQNTT10	7067495
		B1ML96	J7C080251-6	JQNTT3AD	9JQNTT30	7100160
		B1MLB1	J7C080251-7	JQNT21AA	9JQNT210	7067495
		B1MLB1	J7C080251-7	JQNT23AD	9JQNT230	7100160





STL

STL Richland
2800 George Washington Way
Richland, WA 99354

Tel: 509 375 3131 Fax: 509 375 5590
www.stl-inc.com

Certificate of Analysis

Fluor Hanford
P.O. Box 1000, T6-03
Richland, WA 99352

April 16, 2007

Attention: John Trecter

SAF Number	:	R07-007
Date SDG Closed	:	March 8, 2007
Number of Samples	:	Seven (7)
Sample Type	:	Soil
SDG Number	:	W05134
Data Deliverable	:	15/15 Day

CASE NARRATIVE

I. Introduction

On March 8, 2007 seven samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned to lot J7C080251 and assigned the following laboratory ID number to correspond with the Fluor Hanford (FH) specific ID:

<u>FH ID#</u>	<u>STLR ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
B1ML91	JQNR3	SOIL	3/8/07
B1ML92	JQNTE	SOIL	3/8/07
B1ML93	JQNTH	SOIL	3/8/07
B1ML94	JQNTM	SOIL	3/8/07
B1ML95	JQNTQ	SOIL	3/8/07
B1ML96	JQNTT	SOIL	3/8/07
B1MLB1	JQNT2	SOIL	3/8/07

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

April 16, 2007

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Alpha Spectroscopy

Plutonium 241 by method RICH-RC-5010

Plutonium 234, 235 and 238 by method RICH-RC-5039

Liquid Scintillation Counting

Nickle 63 by LCS

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Alpha Spectroscopy

Plutonium-241 by method RICH-RC-5010:

The samples were reanalyzed several times due to low LCS yields. Instruments were recalibrated and verified. All aspects of the analysis were inspected. The final run produced acceptable spiked matrix and acceptable reagent LCS's three out of four times. Investigation continues. Except as noted, the blank, LCS, matrix spike, sample and sample duplicate were within contractual limits.

Plutonium 234, 235 and 238 by method RICH-RC-5039:

The samples were reanalyzed several times due to low LCS yields. Instruments were recalibrated and verified. All aspects of the analysis were inspected. The final run produced acceptable spiked matrix and acceptable reagent LCS's three out of four times. Investigation continues. Except as noted, the blank, LCS, matrix spike, sample and sample duplicate were within contractual limits.

Liquid Scintillation Counting

Nickle 63 by LCS:

The LCS, batch blank, samples and sample duplicate were all within acceptance limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

April 16, 2007

Reviewed and approved:



Sherry A. Adam
Project Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	STL Richland's SOP number
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x,y,z,...)$. The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1.2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation $(Result/Expected)-1$ as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) <i>u_c Combined Uncertainty.</i>	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, <i>u_c</i> the <i>combined uncertainty</i> . The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor CRDL (RL)	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations. Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \sqrt{2 * (BkgndCnt/BkgndCntMin) / SCntMin}) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \sqrt{(BkgndCnt/BkgndCntMin) / SCntMin}) + 2.71 / SCntMin) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol})) * \text{IngrFct}$. For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = $(S-D)/[\sqrt{(TPUs^2 + TPUs^2)}]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUs is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

Sample Results Summary

Date: 16-Apr-07

STL Richland STLRL

Ordered by Method, Batch No., Client Sample ID.

Report No.: 34843

SDG No: W05134

Batch	Client Id	Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Yield	MDC or MDA	CRDL	RPD
7067495 NI63_LSC										
B1ML91	JQNR31AA	NI-63		-2.90E-01 +/- 9.90E-01	U	pCi/g	94%	1.44E+00	3.00E+01	
B1ML92	JQNTE1AA	NI-63		9.37E-01 +/- 1.00E+00	U	pCi/g	98%	1.58E+00	3.00E+01	
B1ML92 DUP	JQNTE1AE	NI-63		-4.56E-01 +/- 8.99E-01	U	pCi/g	97%	1.33E+00	3.00E+01	579.6
B1ML93	JQNTH1AA	NI-63		-1.94E-01 +/- 9.55E-01	U	pCi/g	96%	1.39E+00	3.00E+01	
B1ML94	JQNTM1AA	NI-63		-6.95E-02 +/- 1.04E+00	U	pCi/g	90%	1.49E+00	3.00E+01	
B1ML95	JQNTQ1AA	NI-63		-4.62E-01 +/- 9.57E-01	U	pCi/g	91%	1.43E+00	3.00E+01	
B1ML96	JQNTT1AA	NI-63		1.27E-01 +/- 8.64E-01	U	pCi/g	102%	1.24E+00	3.00E+01	
B1MLB1	JQNT2AA	NI-63		2.39E-01 +/- 8.51E-01	U	pCi/g	100%	1.22E+00	3.00E+01	
7100160 RICHRC5010										
B1ML91	JQNR33AD	PU-241		1.65E-02 +/- 9.45E-01	U	pCi/g	80%	2.12E+00	1.50E+01	
B1ML91 DUP	JQNR32AH	PU-241		9.19E-01 +/- 1.15E+00	U	pCi/g	67%	2.50E+00	1.50E+01	193.0
B1ML92	JQNTE3AD	PU-241		-1.35E-01 +/- 1.30E+00	U	pCi/g	57%	2.95E+00	1.50E+01	
B1ML93	JQNTH3AD	PU-241		5.32E-01 +/- 1.84E+00	U	pCi/g	39%	4.09E+00	1.50E+01	
B1ML94	JQNTM3AD	PU-241		-2.16E-01 +/- 1.05E+00	U	pCi/g	68%	2.36E+00	1.50E+01	
B1ML95	JQNTQ3AD	PU-241		-1.34E+00 +/- 2.37E+00	U	pCi/g	30%	5.36E+00	1.50E+01	
B1ML96	JQNTT3AD	PU-241		-2.23E-01 +/- 1.04E+00	U	pCi/g	70%	2.30E+00	1.50E+01	
B1MLB1	JQNT23AD	PU-241		-1.37E+00 +/- 9.22E-01	U	pCi/g	74%	2.12E+00	1.50E+01	
No. of Results: 16										

STL Richland RPD - Relative Percent Difference.
 rptSTLRchSaSum U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by
 mary2 V5.1 A2002 gamma scan software.

QC Results Summary
STL Richland STLRL
 Ordered by Method, Batch No, QC Type.,

Date: 16-Apr-07

Report No. : 34843

SDG No.: W05134

Batch	Work Order	Parameter	Result +/- Uncertainty (2s)	Qual	Units	Yield	Recovery	Bias	MDC MDA
NI63_LSC									
7067495	BLANK QC	JQPXK1AA NI-63	8.54E-02 +/- 9.95E-01	U	pCi/g	92%			1.42E+00
7067495	LCS	JQPXK1AC NI-63	1.16E+02 +/- 8.71E+00		pCi/g	103%	77%	-0.2	1.35E+00
RICHRC6010									
7100160	BLANK QC	JTLPJ1AA PU-241	-7.89E-01 +/- 1.11E+00	U	pCi/g	67%			2.50E+00
		JTLPJ1AD PU-241	-7.85E-01 +/- 9.09E-01	U	pCi/g	79%			2.11E+00
7100160	LCS	JTLPJ1AE PU-241	1.93E+02 +/- 1.13E+01		pCi/g	72%	87%	-0.1	2.27E+00
		JTLPJ1AC PU-241	1.91E+02 +/- 1.13E+01		pCi/g	78%	83%	-0.2	2.21E+00
No. of Results: 6									

STL Richland Bias = (Result/Expected)-1 as defined by ANSI N13.30.
 rptSTLRchQcSum U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/MDA or Total Uncert or not identified by
 mary V5.1 A2002 gamma scan software.

FORM I
SAMPLE RESULTS

Date: 16-Apr-07

Lab Name:	STL Richland	SDG:	W05134	Collection Date:	3/7/2007 8:37:00 AM
Lot-Sample No.:	J7C080251-1	Report No.:	34843	Received Date:	3/8/2007 9:55:00 AM
Client Sample ID:	B1ML91	COC No.:	R07-007-006	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Allquot Size	Primary Detector
Batch: 7067495	NI63_LSC				Work Order: JQNR31AA		Report DB ID: 9JQNR310					
NI-63	-2.90E-01	U	5.9E-01	9.9E-01	1.44E+00	pCi/g	94%	-0.2	3/21/07 02:51 p	1.0	G	LSC3
					6.99E-01		3.00E+01	-0.59				
Batch: 7100160	RICHRC5010				Work Order: JQNR33AD		Report DB ID: 9JQNR330					
PU-241	1.85E-02	U	8.7E-01	9.5E-01	2.12E+00	pCi/g	80%	0.01	4/15/07 10:26 p	1.02	G	LSC7
					1.02E+00		1.50E+01	0.03				

No. of Results: 2 Comments:

STL Richland MDC|MDA,Lc - Detection, Decision Level based on Instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 np1STLRchSample U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not Identified by gamma scan software.
 V5.1 A2002

FORM I
SAMPLE RESULTS

Date: 16-Apr-07

Lab Name:	STL Richland	SDG:	W05134	Collection Date:	3/7/2007 9:37:00 AM
Lot-Sample No.:	J7C080251-2	Report No.:	34843	Received Date:	3/8/2007 9:55:00 AM
Client Sample ID:	B1ML92	COC No.:	R07-007-006	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Paraméter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7067495	NI63_LSC				Work Order: JQNTE1AA		Report DB ID: 9JQNTE10					
NI-63	9.37E-01	U	6.2E-01	1.0E+00	1.58E+00	pCi/g	98%	0.59	3/21/07 04:33 p	1.06	G	LSC3
					7.67E-01		3.00E+01	(1.9)				
Batch: 7100160	RICHRC5010				Work Order: JQNTE3AD		Report DB ID: 9JQNTE30					
PU-241	-1.35E-01	U	1.2E+00	1.3E+00	2.95E+00	pCi/g	57%	-0.05	4/15/07 10:26 p	1.04	G	LSC7
					1.41E+00		1.50E+01	-0.21				

No. of Results: 2 Comments:

STL Richland MDC|MDA,Lc - Detection, Decision Level based on Instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.
 V5.1 A2002

FORM I
SAMPLE RESULTS

Date: 16-Apr-07

Lab Name:	STL Richland	SDG:	W05134	Collection Date:	3/7/2007 12:15:00 PM
Lot-Sample No.:	J7C080251-3	Report No.:	34843	Received Date:	3/8/2007 9:55:00 AM
Client Sample ID:	B1ML93	COC No.:	R07-007-006	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Allquot Size	Primary Detector
Batch: 7067495	NI63_LSC				Work Order: JQNTH1AA		Report DB ID: 9JQNTH10					
NI-63	-1.94E-01	U	5.7E-01	9.6E-01	1.39E+00	pCi/g	96%	-0.14	3/21/07 07:59 p	1.02	G	LSC3
					6.72E-01		3.00E+01	-0.41				
Batch: 7100160	RICHRC5010				Work Order: JQNTH3AD		Report DB ID: 9JQNTH30					
PU-241	5.32E-01	U	1.7E+00	1.8E+00	4.09E+00	pCi/g	39%	0.13	4/15/07 10:26 p	1.08	G	LSC7
					1.96E+00		1.50E+01	0.58				

No. of Results: 2 Comments:

STL Richland MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.
 V5.1 A2002

FORM I
SAMPLE RESULTS

Date: 16-Apr-07

Lab Name:	STL Richland	SDG:	W05134	Collection Date:	3/7/2007 12:52:00 PM
Lot-Sample No.:	J7C080251-4	Report No. :	34843	Received Date:	3/8/2007 9:55:00 AM
Client Sample ID:	B1ML94	COC No. :	R07-007-006	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Ret/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7067495	NI63_LSC				Work Order: JQNTM1AA		Report DB ID: 9JQNTM10					
NI-63	-6.95E-02	U	6.1E-01	1.0E+00	1.49E+00	pCi/g	90%	-0.05	3/21/07 09:42 p	1.01	G	LSC3
					7.22E-01		3.00E+01	-0.13				
Batch: 7100160	RICHRC5010				Work Order: JQNTM3AD		Report DB ID: 9JQNTM30					
PU-241	-2.16E-01	U	9.6E-01	1.0E+00	2.36E+00	pCi/g	68%	-0.09	4/16/07 10:26 p	1.07	G	LSC7
					1.13E+00		1.50E+01	-0.41				

No. of Results: 2 Comments:

STL Richland MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not Identified by gamma scan software.
 V5.1 A2002

FORM I
SAMPLE RESULTS

Date: 16-Apr-07

Lab Name:	STL Richland	SDG:	W05134	Collection Date:	3/7/2007 9:37:00 AM
Lot-Sample No.:	J7C080251-5	Report No.:	34843	Received Date:	3/8/2007 9:55:00 AM
Client Sample ID:	B1ML95	COC No.:	R07-007-006	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (\pm s)	Total Uncert(\pm s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7067495	NI63_LSC				Work Order: JQNTQ1AA		Report DB ID: 9JQNTQ10					
NI-63	-4.62E-01	U	5.7E-01	9.6E-01	1.43E+00	pCi/g	91%	-0.32	3/21/07 11:25 p	1.06	LSC3	
					6.95E-01		3.00E+01	-0.97			G	
Batch: 7100160	RICHRC6010				Work Order: JQNTQ3AD		Report DB ID: 9JQNTQ30					
PU-241	-1.34E+00	U	2.2E+00	2.4E+00	5.36E+00	pCi/g	30%	-0.25	4/15/07 10:26 p	1.05	LSC7	
					2.57E+00		1.50E+01	-(1.1)			G	

No. of Results: 2 Comments:

STL Richland MDC|MDA,Lc - Detection, Decision Level based on Instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not Identified by gamma scan software.
 V6.1 A2002

FORM I
SAMPLE RESULTS

Date: 16-Apr-07

Lab Name:	STL Richland	SDG:	W05134	Collection Date:	3/1/2007 2:10:00 PM
Lot-Sample No.:	J7C080251-6	Report No. :	34843	Received Date:	3/8/2007 9:55:00 AM
Client Sample ID:	B1ML96	COC No. :	R07-007-006	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Allquot Size	Primary Detector
Batch: 7067495	NI83_LSC				Work Order: JQNTT1AA		Report DB ID: 9JQNTT10					
NI-63	1.27E-01	U	5.1E-01	8.6E-01	1.24E+00	pCi/g	102%	0.1	3/22/07 01:07 a	1.09	G	LSC3
					6.01E-01		3.00E+01	0.29				
Batch: 7100160	RICHRC5010				Work Order: JQNTT3AD		Report DB ID: 8JQNTT30					
PU-241	-2.23E-01	U	9.5E-01	1.0E+00	2.30E+00	pCi/g	70%	-0.1	4/15/07 10:26 p	1.03	G	LSC7
					1.10E+00		1.50E+01	-0.43				

No. of Results: 2 Comments:

STL Richland MDC|MDA,Lc - Detection, Decision Level based on Instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rPLTRLchSample U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.
 V5.1 A2002

FORM I
SAMPLE RESULTS

Date: 16-Apr-07

Lab Name:	STL Richland	SDG:	W05134	Collection Date:	3/7/2007 9:37:00 AM
Lot-Sample No.:	J7C080251-7	Report No. :	34843	Received Date:	3/8/2007 9:55:00 AM
Client Sample ID:	B1MLB1	COC No. :	R07-007-006	Matrix:	SOIL

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDC, Rst/TotUncrt	Analysis, Prep Date	Total Sa Size	Allquot Size	Primary Detector
Batch: 7087495	NI63_LSC				Work Order: JQNT21AA		Report DB ID: 9JQNT210					
NI-63	2.39E-01	U	5.1E-01	8.5E-01	1.22E+00	pCi/g	100%	0.2	3/22/07 02:50 a	1.13	G	LSC3
					5.92E-01		3.00E+01	0.56				
Batch: 7100160	RICHRC5010				Work Order: JQNT23AD		Report DB ID: 9JQNT230					
PU-241	-1.37E+00	U	8.4E-01	9.2E-01	2.12E+00	pCi/g	74%	-0.65	4/15/07 10:26 p	1.05	G	LSC7
					1.02E+00		1.50E+01	-(3.)				

No. of Results: 2 Comments:

STL Richland MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 rptSTLRchSample U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.
 V5.1 A2002

FORM II

Date: 16-Apr-07

DUPLICATE RESULTS

Lab Name: STL Richland SDG: W05134 Collection Date: 3/7/2007 8:37:00 AM
 Lot-Sample No.: J7C080251-1 Report No.: 34843 Received Date: 3/8/2007 9:55:00 AM
 Client Sample ID: B1ML91 DUP COC No.: R07-007-006 Matrix: SOIL

Parameter	Result, Orig Rst	Count	Total	MDC MDA,	Rpt Unit,	Rst/MDC,	Analysis,	Total Sa	Aliquot	Primary
	Qual	Error (2 s)	Uncert(2 s)	Action Lev	CRDL	Rst/TotUncert	Prep Date	Size	Size	Detector
Batch: 7100160	RICHRC5010			Work Order: JQNR32AH		Report DB ID: JQNR32HR	Orig Sa DB ID: 9JQNR330			
PU-241	9.19E-01	U	1.1E+00	1.2E+00	2.50E+00	pCi/g	67%	0.37	4/15/07 10:26 p	1.02
	1.65E-02	U	RPD 193.0			1.50E+01	(1.6)			G

No. of Results: 1 Comments:

STL Richland RPD - Relative Percent Difference.
 rptSTLRchDupV6.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 A2002 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II

Date: 16-Apr-07

DUPLICATE RESULTS

Lab Name: STL Richland SDG: W05134 Collection Date: 3/7/2007 9:37:00 AM
 Lot-Sample No.: J7C080251-2 Report No.: 34843 Received Date: 3/8/2007 9:55:00 AM
 Client Sample ID: B1ML92 DUP COC No.: R07-007-006 Matrix: SOIL

Parameter	Result, Orig Rst	Count Qual	Total Error (2 s)	Total Uncert(2 s)	MDC MDA, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Allquot Size	Primary Detector
Batch: 7067495	NI63_LSC				Work Order: JQNTE1AE			Report DB ID: JQNTE1ER		Orig Sa DB ID: 9JQNTE10		
NI-63	-4.56E-01	U	5.4E-01	9.0E-01	1.33E+00	pCi/g	97%	-0.34	3/21/07 06:16 p	1.06	LSC3	
	9.37E-01	U	RPD 579.6					-(1.)		G		

No. of Results: 1 Comments:

STL Richland RPD - Relative Percent Difference.
 rptSTLRchDupV5.1 MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
 A2002 U Qual - Analyzed for but not detected above limiting criteria. Limit criteria is less than the Mdc/Mda or Total Uncert or not identified by gamma scan software.

FORM II
BLANK RESULTS

Date: 16-Apr-07

Lab Name: STL Richland

SDG: W05134

Matrix: SOIL

Report No.: 34843

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA, Lc	Rpt Unit, CRDL	Yield	Rst/MDC, Rst/TotUncert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 7067495	NI63_LSC				Work Order: JQPXK1AA			Report DB ID: JQPXK1AB				
NI-63	8.54E-02	U	5.9E-01	9.9E-01	1.42E+00	pCi/g	92%	0.06	3/22/07 04:33 a	1.04	G	LSC3
					6.87E-01	3.00E+01		0.17				
Batch: 7100160	RICHRC5010				Work Order: JTLPJ1AA			Report DB ID: JTLPJ1AB				
PU-241	-7.69E-01	U	1.0E+00	1.1E+00	2.50E+00	pCi/g	67%	-0.31	4/15/07 10:26 p	1.0	G	LSC7
					1.20E+00	1.50E+01		-(1.4)				
Batch: 7100160	RICHRC6010				Work Order: JTLPJ1AD			Report DB ID: JTLPJ1DX				
PU-241	-7.85E-01	U	8.3E-01	9.1E-01	2.11E+00	pCi/g	79%	-0.37	4/15/07 10:26 p	1.04	G	LSC7
					1.01E+00	1.50E+01		-(1.7)				

No. of Results: 3 Comments:

FORM II
LCS RESULTS

Date: 16-Apr-07

Lab Name: STL Richland

SDG: W05134

Matrix: SOIL

Report No.: 34843

Parameter	Result	Qual	Count Error (2 s)	Total Uncert(2 s)	MDC MDA	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 7067495	NI63_LSC				Work Order: JQPKX1AC			Report DB ID: JQPKX1CS					
NI-63	1.16E+02		2.0E+00	8.7E+00	1.35E+00 pCi/g		103%	1.51E+02	5.02E+00	77%	3/22/07 06:15 a	1.0	LSC3
						Rec Limits:	70	130	-0.2			G	
Batch: 7100160	RICHRC5010				Work Order: JTLPJ1AC			Report DB ID: JTLPJ1CS					
PU-241	1.91E+02		3.7E+00	1.1E+01	2.21E+00 pCi/g		78%	2.30E+02	8.20E+00	83%	4/15/07 10:26 p	1.0	LSC7
						Rec Limits:	70	130	-0.2			G	
Batch: 7100160	RICHRC5010				Work Order: JTLPJ1AE			Report DB ID: JTLPJ1EM					
PU-241	1.93E+02		3.8E+00	1.1E+01	2.27E+00 pCi/g		72%	2.21E+02	7.88E+00	87%	4/15/07 10:27 p	1.06	LSC7
						Rec Limits:	70	130	-0.1			G	

No. of Results: 3 Comments:

Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/16/2007 1:12:34 PM

Lot No., Due Date: J7C080251; 03/23/2007
Client, Site: 108302; FLUOR- SOILS Hanford Site
QC Batch No., Method Test: 7100159; RPUISO Pulso by ALP
SDG, Matrix: W05134; SOIL

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?

Yes No N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?

Yes No N/A

2.2 Are the QC appropriate for the analysis included in the batch?

Yes No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?

Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample?

Yes No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?

Yes No N/A

3.2 Is the LCS result, yield, and MDA within contract limits?

Yes No N/A

3.3 Are the MS/MSD results, yields, and MDAs within contract limits?

Yes No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits?

Yes No N/A

3.5 Are the sample yields and MDAs within contract limits?

Yes No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units?

Yes No N/A

4.2 Were analysis volumes entered correctly?

Yes No N/A

4.3 Were Yields entered correctly?

Yes No N/A

4.4 Were spectra reviewed/meet contractual requirements?

Yes No N/A

4.5 Were raw counts reviewed for anomalies?

Yes No N/A

5.0 Other

5.1 Are all nonconformances included and noted?

Yes No N/A

5.2 Are all required forms filled out?

Yes No N/A

5.3 Was the correct methodology used?

Yes No N/A

5.4 Was transcription checked?

Yes No N/A

5.5 Were all calculations checked at a minimum frequency?

Yes No N/A

5.6 Are worksheet entries complete and correct?

Yes No N/A

6.0 Comments on any No response:

NCM 10-09733

First Level Review

STL Richland

OAS_RADCALCV4.8.26

STL RICHLAND

Date

4/16/07

Page 1

**SEVERN
TRENT**

STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

OC Batch Number:

7100159
W05134

Review Item	Yes (✓)	No (✗)	N/A (✗)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?		✓	
C. Other			
1. Are all Nonconformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

See NCM

Second Level Review

Sheryl A. Adams

Date: 4-16-07

Clouseau Nonconformance Memo

SEVERN
TRENT
SERVICES

NCM #: 10-09733	Classification: Anomaly
NCM Initiated By: Lisa Antonson	Status: GL REVIEW
Date Opened: 04/16/2007	Production Area: Environmental - Prep
Date Closed:	Tests: Ni-63 by LSC, Pu-241 by LSC, Pulso by ALP
	Lot #'s (Sample #'s): J7C080251 (1,2,3,4,5,6,7), QC Batches: 7067491, 7067492, 7067495, 7087168, 7087198, 7100159, 7100160
Nonconformance: Other (describe in detail) Subcategory: Other (explanation required)	

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	04/16/2007	Samples were reanalyzed several times due to low LCS yields. Instruments were recalibrated and verified. All aspects of the analysis were inspected. The final run produced acceptable spiked matrix and acceptable reagent LCS's three out of four times. Investigation continues.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	04/16/2007	Report data based on acceptable QC.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

Verified By	Due Date	Status	Notes
This section not yet completed by QA.			

Approval History

Date Approved	Approved By	Position
---------------	-------------	----------

SEVERN
STLData Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

4/16/2007 1:06:32 PM

Lot No., Due Date: J7C080251; 03/23/2007
Client, Site: 108302; FLUOR- SOILS Hanford Site
QC Batch No., Method Test: 7100160; RPU241 Pu-241 by LSC
SDG, Matrix: W05134; SOIL

1.0 COC		
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes	No N/A
2.0 QC Batch		
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes	No N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes	No N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes	No N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No N/A
3.0 QC & Samples		
3.1 Is the blank results, yield, and MDA within contract limits?	Yes	No N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes	No N/A
3.3 Are the MS/MSD results, yields, and MDAs within contract limits?	Yes	No N/A
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes	No N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes	No N/A
4.0 Raw Data		
4.1 Were results calculated in the correct units?	Yes	No N/A
4.2 Were analysis volumes entered correctly?	Yes	No N/A
4.3 Were Yields entered correctly?	Yes	No N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No N/A
4.5 Were raw counts reviewed for anomalies?	Yes	No N/A
5.0 Other		
5.1 Are all nonconformances included and noted?	Yes	No N/A
5.2 Are all required forms filled out?	Yes	No N/A
5.3 Was the correct methodology used?	Yes	No N/A
5.4 Was transcription checked?	Yes	No N/A
5.5 Were all calculations checked at a minimum frequency?	Yes	No N/A
5.6 Are worksheet entries complete and correct?	Yes	No N/A
6.0 Comments on any No response:	NCM 10-09733	

First Level Review

STL Richland
QAS_RADCALCv4.8.26
STL RICHLAND

Date

4/16/07

Page 1

SEVERN
TRENT

STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

OC Batch Number:

7100160
W05134

Review Item	Yes (✓)	No (✗)	N/A (✗)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?		/	
5. Is the LCS recovery with contract acceptance criteria?	/		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
8. Do the MS/MSD results and yields meet acceptance criteria?			/
9. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other			
1. Are all Nonconformances included and noted?	/		
2. Are all required forms filled out?	/		
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response:

See NCM

Second Level Review:

Sherry L. Adam

Date: 4-16-07

Lot No., Due Date: J7C080251; 03/23/2007
Client, Site: 108302; FLUOR- SOILS Hanford Site
QC Batch No., Method Test: 7067495; RNI63 Ni-63 by LSC
SDG, Matrix: W05134; SOIL

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	<input checked="" type="checkbox"/>	Yes	No N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	<input checked="" type="checkbox"/>	Yes	No N/A
2.2 Are the QC appropriate for the analysis included in the batch?	<input checked="" type="checkbox"/>	Yes	No N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	<input checked="" type="checkbox"/>	Yes	No N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	<input checked="" type="checkbox"/>	Yes	No N/A
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	<input checked="" type="checkbox"/>	Yes	No N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	<input checked="" type="checkbox"/>	Yes	No N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	<input checked="" type="checkbox"/>	Yes	No N/A
3.4 Are the duplicate result, yields, and MDAs within contract limits?	<input checked="" type="checkbox"/>	Yes	No N/A
3.5 Are the sample yields and MDAs within contract limits?	<input checked="" type="checkbox"/>	Yes	No N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	<input checked="" type="checkbox"/>	Yes	No N/A
4.2 Were analysis volumes entered correctly?	<input checked="" type="checkbox"/>	Yes	No N/A
4.3 Were Yields entered correctly?	<input checked="" type="checkbox"/>	Yes	No N/A
4.4 Were spectra reviewed/meet contractual requirements?	<input checked="" type="checkbox"/>	Yes	No N/A
4.5 Were raw counts reviewed for anomalies?	<input checked="" type="checkbox"/>	Yes	No N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	<input checked="" type="checkbox"/>	Yes	No N/A
5.2 Are all required forms filled out?	<input checked="" type="checkbox"/>	Yes	No N/A
5.3 Was the correct methodology used?	<input checked="" type="checkbox"/>	Yes	No N/A
5.4 Was transcription checked?	<input checked="" type="checkbox"/>	Yes	No N/A
5.5 Were all calculations checked at a minimum frequency?	<input checked="" type="checkbox"/>	Yes	No N/A
5.6 Are worksheet entries complete and correct?	<input checked="" type="checkbox"/>	Yes	No N/A
6.0 Comments on any No response:			

First Level Review

Pam Anderson

Date 3/27/07

Clouseau Nonconformance Memo



NCM #: **10-09733**
NCM Initiated By: Lisa Antonson
Date Opened: 04/16/2007
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Prep
Tests: Ni-63 by LSC, Pu-241 by LSC, Pulso by ALP
Lot #'s (Sample #'s): J7C080251 (1,2,3,4,5,6,7),
QC Batches: 7067491, 7067492, 7067495,
7087168, 7087198, 7100159,
7100160

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Lisa Antonson	04/16/2007	Samples were reanalyzed several times due to low LCS yields. Instruments were recalibrated and verified. All aspects of the analysis were inspected. The final run produced acceptable spiked matrix and acceptable reagent LCS's three out of four times. Investigation continues.

Corrective Action

Name	Date	Corrective Action
Lisa Antonson	04/16/2007	Report data based on acceptable QC.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

Verified By	Due Date	Status	Notes
This section not yet completed by QA.			

Approval History

Date Approved	Approved By	Position
---------------	-------------	----------

SEVERN
TRENT

STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

OC Batch Number:

1061495
W05734

Review Item	Yes (✓)	No (✗)	N/A (✗)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?		✓	
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?			
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review:

Shayla A. Olson

Date: 5-28-07

Fluor Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST					R07-007-006	PAGE 1 OF 2		
COLLECTOR HOGAN, JG	J7C080251 W05134	COMPANY CONTACT KLAGES, DL			TELEPHONE NO.	PROJECT COORDINATOR TRECHTER, JE	PRICE CODE BC	DATA TURNAROUND		
SAMPLING LOCATION 216-N-2	Date 03-23-07	PROJECT DESIGNATION 200-CW-3 Operable Unit Test Pit Analyses				SAF NO. R07-007	AIR QUALITY <input type="checkbox"/>	15 Days / 15 Days		
ICE CHEST NO. GRP-07-005		FIELD LOGBOOK NO. HNF-N-5073	COA 122333ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE						
SHIPPED TO Severn Trent Incorporated, Richland		OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A						
MATRIX* OL = OTHER LIQUID OS = OTHER SOLID S = SOIL W = WATER	SPECIAL HANDLING AND/OR STORAGE			POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)						
SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS			PRESERVATION	
B1ML91		S	3-7-07	0837	1X60mL G/P	Nickel-63;			None	
B1ML91		S		0837	1X60mL G/P	Plutonium-241; JQNR3			None	
B1ML92		S		0937	1X60mL G/P	Nickel-63;			None	
B1ML92		S		0937	1X60mL G/P	Plutonium-241; JQNT			None	
B1ML93		S		1215	1X60mL G/P	Nickel-63;			None	
B1ML93		S		1215	1X60mL G/P	Plutonium-241; JQNT			None	
B1ML94		S	✓	1252	1X60mL G/P	Nickel-63;			None	
CHAIN OF POSSESSION										
RELINQUISHED BY/REMOVED FROM J.G. Hogan Fluor Hanford		DATE/TIME 0935	RECEIVED BY/STORED IN E. Dabney		DATE/TIME MAR 08 2007	SPECIAL INSTRUCTIONS				
RELINQUISHED BY/REMOVED FROM		DATE/TIME	RECEIVED BY/STORED IN		DATE/TIME	** Reporting format the same as GPT, including QC. ** STL is to send a copy of chain of custody (COC) to John Trechter within 24 hours of sample receipt and copy ^CPP Sample Management mailbox.				
RELINQUISHED BY/REMOVED FROM		DATE/TIME	RECEIVED BY/STORED IN		DATE/TIME	** The Fluor Hanford samplers shall provide copies of all field documents to Steve Trent. ** Final reports are to be uploaded into HEIS. ** Samples WILL NOT be taken using the multi-increment sampling technique.				
LABORATORY SECTION	RECEIVED BY				TITLE	DATE/TIME				
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD				DISPOSED BY	DATE/TIME				

STL RICHLAND	Fluor Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				R07-007-006	PAGE 2 OF 2		
	COLLECTOR HOGAN, JG W05134	COMPANY CONTACT KLAGES, DL	TELEPHONE NO.		PROJECT COORDINATOR TRECHTER, JE		PRICE CODE 8C	DATA TURNAROUND		
	SAMPLING LOCATION 216-N-2 Due 03-23-07	PROJECT DESIGNATION 200-CW-3 Operable Unit Test Pit Analyses			SAF NO. R07-007		AIR QUALITY <input type="checkbox"/>	15 Days / 15 Days		
	ICE CHEST NO. CRP-07-005	FIELD LOGBOOK NO. HNF-N-507-3	COA 122333ES20	METHOD OF SHIPMENT GOVERNMENT VEHICLE						
	SHIPPED TO Severn Trent Incorporated, Richland	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A							
	MATRIX* OL = OTHER LIQUID OS = OTHER SOLID S = SOIL W = WATER	SPECIAL HANDLING AND/OR STORAGE			POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DDE Order 5400.5 (1990/1993)					
	SAMPLE NO.	LAB ID	MATRIX*	SAMPLE DATE	SAMPLE TIME	NO./TYPE CONTAINER(S)	ANALYSIS			PRESERVATION
	B1ML94		S	3-7-07	1252	1X60mL G/P	Plutonium-241; JQNTM			None
B1ML95		S		0937	1X60mL G/P	Nickel-63;			None	
B1ML95		S	↓	0937	1X60mL G/P	Plutonium-241; JQNTQ			None	
B1ML96		S	3-1-07	1410	1X60mL G/P	Nickel-63;			None	
B1ML96		S	3-1-07	1410	1X60mL G/P	Plutonium-241; JQNTT			None	
B1MLB1		S	3-7-07	0937	1X60mL G/P	Nickel-63;			None	
B1MLB1		S	3-7-07	0937	1X60mL G/P	Plutonium-241; JQNTZ			None	
CHAIN OF POSSESSION					SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM J.G. Hogan Fluor Hanford	DATE/TIME 0935	RECEIVED BY/STORED IN For Duty		DATE/TIME 0435					** Reporting format the same as GPP, including QC. ** STL is to send a copy of chain of custody (COC) to John Trechter within 24 hours of sample receipt and copy ^CPP Sample Management mailbox.	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN		DATE/TIME					** The Fluor Hanford samplers shall provide copies of all field documents to Steve Trent.	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN		DATE/TIME					** Final reports are to be uploaded into HEIS. ** Samples WILL NOT be taken using the multi-increment sampling technique.	
LABORATORY SECTION	RECEIVED BY				TITLE			DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD				DISPOSED BY			DATE/TIME		



STL

Sample Check-in List

Date/Time Received: 3/8/07 0955

Client: FLH SDG #: W05134 NA [] SAF #: R07-007 NA []

Work Order Number: J7C080251 Chain of Custody # R07-007-006

Shipping Container ID: _____ Air Bill #: _____

1. Custody Seals on shipping container intact? NA [] Yes [] No []

2. Custody Seals dated and signed? NA [] Yes [] No []

3. Chain of Custody record present? Yes [] No []

4. Cooler temperature: _____ NA [] ✓ 5. Vermiculite/packing materials is NA [] Wet [] Dry []

6. Number of samples in shipping container: 7
14 x 60mL

7. Sample holding times exceeded? NA [] Yes [] No []

8. Samples have:
 tape hazard labels
 custody seals appropriate samples labels

9. Samples are:
 in good condition leaking
 broken have air bubbles
 (Only for samples requiring head space)

10. Sample pH taken? Soil NA [] pH<2 [] pH>2 [] adjusted pH []

11. Sample Location, Sample Collector Listed? * Yes [] No []
 *For documentation only. No corrective action needed.

12. Were any anomalies identified in sample receipt? Yes [] No [] ✓

13. Description of anomalies (include sample numbers):

Sample Custodian: Eric Darby Date: 3/8/07 0955

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 12/05, Rev. 6

Sample Preparation/Analysis									Balance Id:1120373922
									Pipet #: _____
									Sep1 DT/Tm Tech: _____
									Sep2 DT/Tm Tech: _____
									Prep Tech: ,WoodT
Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:	
1 JQNR3-2-AG-X J7C080251-1-DUP	1.02g,in	PUTC10580 03/13/07,pd 08/04/06,r	200						
03/07/2007 08:37	AmtRec: 2X80ML	#Containers: 2					Scr:	Alpha:	Beta:
2 JQNR3-4-AC J7C080251-1-SAMP	1.02g,in	PUTC10581 03/13/07,pd 08/04/06,r							
03/07/2007 08:37	AmtRec: 2X80ML	#Containers: 2					Scr:	Alpha:	Beta:
3 JQNTE-3-AC J7C080251-2-SAMP	1.04g,in	PUTC10582 03/13/07,pd 08/04/06,r							
03/07/2007 09:37	AmtRec: 2X80ML	#Containers: 2					Scr:	Alpha:	Beta:
4 JQNTH-3-AC J7C080251-3-SAMP	1.08g,in	PUTC10583 03/13/07,pd 08/04/06,r							
03/07/2007 12:15	AmtRec: 2X80ML	#Containers: 2					Scr:	Alpha:	Beta:
5 JQNTM-3-AC J7C080251-4-SAMP	1.07g,in	PUTC10584 03/13/07,pd 08/04/06,r							
03/07/2007 12:52	AmtRec: 2X80ML	#Containers: 2					Scr:	Alpha:	Beta:
6 JQNTQ-3-AC J7C080251-5-SAMP	1.05g,in	PUTC10585 03/13/07,pd 08/04/06,r							
03/07/2007 09:37	AmtRec: 2X80ML	#Containers: 2					Scr:	Alpha:	Beta:
7 JQNTT-4-AC J7C080251-6-SAMP	1.03g,in	PUTC10586 03/13/07,pd 08/04/06,r							
03/01/2007 14:10	AmtRec: 2X80ML	#Containers: 2					Scr:	Alpha:	Beta:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prop_SamplePrep v4.8.28

14/10/2007 12:52:41 PM	Sample Preparation/Analysis						Balance Id:1120373922				
108302, Fluor Hanford Inc	, Flour	6A Pu PrpRC5013/RC5019, SepRC5010(5039) SO Plutonium-238,239/40 by Alpha Spec						Pipet #: _____			
AnalyDueDate: 03/23/2007	PROTEIN: HANFORD						Sep1 DT/Tm Tech:				
Batch: 7100159 SOIL	pCi/g	PM, Quote: SA , 50639						Sep2 DT/Tm Tech:			
SEQ Batch, Test: None											
Prep Tech: , WoodT											
Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:			
8 JQNT2-3-AC J7C080251-7-SAMP	1.05g,in	PUTC10587 03/13/07,pd 08/04/06,r	200								
03/07/2007 09:37	AmtRec: 2X30ML	#Containers: 2					Scr:	Alpha:	Beta:		
9 JTLPH-1-AA-B J7D100000-159-BLK	1.00g,in	PUTC10588 03/13/07,pd 08/04/06,r									
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:		
10 JTLPH-1-AC-C J7D100000-159-LCS	1.00g,in	PUSK0599 04/10/07,pd 10/06/06,r									
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:		
11 JTLPH-1-AD-BX J7D100000-159-MBLK	1.04g,in	PUTC10589 03/13/07,pd 08/04/06,r									
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:		
12 JTLPH-1-AE-CM J7D100000-159-MLCS	1.05g,in	PUSK0700 04/10/07,pd 10/06/06,r									
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:		
Comments:											
All Clients for Batch: 108302, Fluor Hanford Inc Fluor Hanford Inc , SA , 50639											
JQNR32AG-DUP Constituent List: PU-238 RDL:1 pCi/g LCL: UCL: RPD: PU-239 RDL:1 pCi/g LCL:70 UCL:130 RPD:35											
STL Richland	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2						Page 2	ISV - Insufficient Volume for Analysis			WO Cnt: 12
Richland Wa.	pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailled Added										Prep_SamplePrep v4.8.26

4/10/2007 12:52:47 PM

Sample Preparation/Analysis

Balance Id:1120373922

6A Pu PrpRC5013/RC5019, SepRC5010(5039)
Pu
²³⁸Pu Plutonium-238,239/40 by Alpha Spec

Pipet #: _____

AnalyDueDate: 03/23/2007

Sep1 DT/Tm Tech:

Batch: 7100159
 SEQ Batch, Test: None

pCi/g

Sep2 DT/Tm Tech:

Prep Tech: ,WoodT

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
Pu-242 RDL: pCi/g	RDL:20	UCL:105	RPD:35					
JTLPH1AA-BLK:								
PU-238 RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:
PU-242 RDL:	pCi/g	LCL:20	UCL:105	RPD:35			UCL:	RPD:
JTLPH1AC-LCS:								
PU-239 RDL:1	pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:1	pCi/g	LCL:20
JTLPH1AD-MBLK:							UCL:105	RPD:35
PU-238 RDL:1	pCi/g	LCL:	UCL:	RPD:	PU-239	RDL:1	pCi/g	LCL:
PU-242 RDL:	pCi/g	LCL:20	UCL:105	RPD:35			UCL:	RPD:
JTLPH1AE-MLCB:								
PU-239 RDL:1	pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:	pCi/g	LCL:20
JQNR32AG-DUP Calc Info:							UCL:105	RPD:35
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
JTLPH1AA-BLK:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
JTLPH1AC-LCS:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
JTLPH1AD-MBLK:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
JTLPH1AE-MLCB:								
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
Approved By _____					Date: _____			

STL Richland
 Richland Wa.

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 12

Prep_SamplePrep v4.8.26

3/26/2007 4:15:55 PM		Sample Preparation/Analysis					Balance Id:1120373922		
108302, Fluor Hanford Inc Hanford Inc		Flour	6A Pu PrpRC5013/RC5019, SepRC5010(5039) SO Plutonium-238,239/40 by Alpha Spec			Pipet #: _____			
AnalyDueDate: 03/23/2007		SI CLIENT: HANFORD					Sep1 DT/Tm Tech: Sep2 DT/Tm Tech: Prep Tech: WoodT		
Batch: 7067491 SOIL		pCi/g	PM, Quote: SA , 50639						
SEQ Batch, Test: None									
Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:	
1 JQNR3-1-AC J7C080251-1-SAMP	1.06g,fl	PUTC10603 03/13/07,pd 08/04/06,r							
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
2 JQNR3-1-AE-X J7C080251-1-DUP	1.06g,in	PUTC10604 03/13/07,pd 08/04/06,r							
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
3 JQNR3-2-AC J7C080251-1-SAMP									
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
4 JQNT-E-1-AC J7C080251-2-SAMP	1.04g,in	PUTC10605 03/13/07,pd 08/04/06,r							
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
5 JQNTH-1-AC J7C080251-3-SAMP	1.00g,in	PUTC10606 03/13/07,pd 08/04/06,r							
03/07/2007 12:15	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
6 JQNTM-1-AC J7C080251-4-SAMP	1.04g,in	PUTC10607 03/13/07,pd 08/04/06,r							
03/07/2007 12:52	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
7 JQNTQ-1-AC J7C080251-5-SAMP	1.00g,in	PUTC10608 03/13/07,pd 08/04/06,r							
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
STL Richland Richland Wa.		Key: In - Initial Amt, fl - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, cl-Cocktailed Added					ISV - Insufficient Volume for Analysis		WO Cnt: 7 ICOC v4.8.26

3/26/2007 4:15:57 PM		Sample Preparation/Analysis					Balance Id:1120373922		
108302, Fluor Hanford Inc		Flour	6A Pu PrpRC5013/RC5019, SepRC5010(5039) SO Plutonium-238,239/40 by Alpha Spec			Pipet #: _____			
RICHLAND AnalyDueDate: 03/23/2007			SI CLIENT: HANFORD			Sep1 DT/Tm Tech: _____			
Batch: 7067491 SOIL		pCi/g	PM, Quote: SA , 50639			Sep2 DT/Tm Tech: _____			
SEQ Batch, Test: None						Prep Tech: ,WoodT			
Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:	
8 JQNTT-1-AC J7C080251-6-SAMP	1.00g,in		PUTC10609 03/13/07,rd 08/04/08,r						
03/01/2007 14:10		AmtRec: 2X80ML	#Containers: 2			Scr:	Alpha:	Beta:	
9 JQNTT-2-AC J7C080251-6-SAMP									
03/01/2007 14:10		AmtRec: 2X80ML	#Containers: 2			Scr:	Alpha:	Beta:	
10 JQNTT2-1-AC J7C080251-7-SAMP	1.00g,in		PUTC10610 03/13/07,rd 08/04/08,r						
03/07/2007 08:37		AmtRec: 2X80ML	#Containers: 2			Scr:	Alpha:	Beta:	
11 JQPXC-1-AA-B J7C080000-491-BLK	1.01g,in		PUTC10611 03/13/07,rd 08/04/08,r						
03/07/2007 08:37		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:	
12 JQPXC-1-AC-C J7C080000-491-LCS	1.01g,in		PUSK0688 03/13/07,rd 08/04/08,r						
03/07/2007 08:37		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:	
13 JQPXC-2AC-C J7C080000-491-LCS	1.01g <i>1.01g</i>	<i>PUSK</i> <i>0688</i>	<i>200</i>						
03/07/2007 08:37		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:	
STL Richland Key: In - Initial Amt, fi - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added					ISV - Insufficient Volume for Analysis			WO Cnt: 13 ICOC v4.8.26	

STL RICHLAND	3/19/2007 7:51:41 AM	Sample Preparation/Analysis						Balance Id:1120373922
	108302, Fluor Hanford Inc Hanford Inc	, Flour	AH Pu/241 Prep RC5013/5077, SepRC5010(5039) SP Plutonium-241 by Liquid Scint	Printed Date: 3/19/2007	Client: HANFORD	Pipet #:		
	AnalyDueDate: 03/23/2007							Sep1 DT/Tm Tech: Sep2 DT/Tm Tech: Prep Tech: ,WoodT
	Batch: 7067492 SOIL	pCi/g	PM, Quote: SA , 50639		Priority Sequence			
	SEQ Batch, Test: None							
Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Allquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JQNR3-1-AD J7C080251-1-SAMP	1.06g,in			100 3/19/07 88				
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2		100			Scr: Alpha: Beta:	
2 JQNR3-1-AF-X J7C080251-1-DUP	1.06g,in							
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2					Scr: Alpha: Beta:	
3 JQNTE-1-AD J7C080251-2-SAMP	1.04g,in			3/19/07 88				
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2					Scr: Alpha: Beta:	
4 JQNTH-1-AD J7C080251-3-SAMP	1.00g,in							
03/07/2007 12:15	AmtRec: 2X60ML	#Containers: 2					Scr: Alpha: Beta:	
5 JQNTM-1-AD J7C080251-4-SAMP	1.04g,in							
03/07/2007 12:52	AmtRec: 2X60ML	#Containers: 2					Scr: Alpha: Beta:	
6 JQNTQ-1-AD J7C080251-5-SAMP	1.00g,in							
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2					Scr: Alpha: Beta:	
7 JQNTT-1-AD J7C080251-6-SAMP	1.00g,in							
03/01/2007 14:10	AmtRec: 2X60ML	#Containers: 2					Scr: Alpha: Beta:	
STL Richland Key: In - Initial Amt, fi - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailled Added						ISV - Insufficient Volume for Analysis		WO Cnt: 7
								Prep_SamplePrep v4.8.26

STL RICHLAND	Sample Preparation/Analysis											Balance Id: _____
	108302, Fluor Hanford Inc Hanford Inc	, Flour	AH Pu/241 PrpRC5013/5077, SepRC5010(5039) SP. Radium-226 by Liquid Scint			Pipet #: _____						
AnalyDueDate: 03/23/2007		PM, Client: HANFORD			Sep1 DT/Tm Tech: _____							
Batch: 7067492 SOIL SEQ Batch, Test: None		pCi/g	PM, Quote: SA , 50639			Sep2 DT/Tm Tech: _____						
												Prep Tech: ,ManisD
Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:				
8 JQNT2-1-AD J7C080251-7-SAMP	1.03g,in			100								
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:			
9 JQPXE-1-AA-B J7C080000-492-BLK	1.01g,in			3/19/07								
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:			
10 JQPXE-1-AC-C J7C080000-492-LCS	1.01g,in	241A0212 03/13/07,pd 09/23/04,r										
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:			
11 JQPXE-1-AD-BN J7C080000-492-IBLK												
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:			
Comments: Samples muffled for 2 days and microwave bombasted. 3/19/07 jgw												
All Clients for Batch: 108302, Fluor Hanford Inc Fluor Hanford Inc SA , 50639												
JQNR31AD-SAMP Constituent List:												
Fu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Fu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	
JQPXE1AA-BLK:	Fu-241	RDL:15	pCi/g	LCL:	UCL:	Fu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	
JQPXE1AC-LCS:	FU-239	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	Fu-241	RDL:15	pCi/g	LCL:70	UCL:130	
STL Richland	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2					Page 2	ISV - Insufficient Volume for Analysis					WO Cnt: 11
Richland Wa.	pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added											Prep_SamplePrep v4.8.26

4/3/2007 1:52:48 PM 108302, Fluor Hanford Inc Hanford Inc		Sample Preparation/Analysis AH Pu/241 PrpRC5013/5077, SepRC5010(5039) SP Plutonium-241 by Liquid Scint 51 CLIENT: HANFORD					Balance Id:1120373922 Pipet #: _____ Sep1 DT/Tm Tech: Sep2 DT/Tm Tech: Prep Tech: ,WoodT	
AnalyDueDate: 03/23/2007 Batch: 7087198 SOIL SEQ Batch, Test: None		pCi/g PM, Quote: SA , 50639						
Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JQNR3-1-AH-X J7C080251-1-DUP	1.02g,in			100				
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2	4/3/07				Scr:	Alpha:
2 JQNR3-2-AD J7C080251-1-SAMP	1.01g,in							Beta:
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:
3 JONTE-2-AD J7C080251-2-SAMP	1.03g,in							Beta:
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:
4 JQNTH-2-AD J7C080251-3-SAMP	1.09g,in							Beta:
03/07/2007 12:15	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:
5 JQNTM-2-AD J7C080251-4-SAMP	1.04g,in							Beta:
03/07/2007 12:52	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:
6 JQNTQ-2-AD J7C080251-5-SAMP	1.03g,in <i>bailed out yield wa</i>			4/7/07				Beta:
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:
7 JQNTT-2-AD J7C080251-6-SAMP	1.02g,in							Beta:
03/01/2007 14:10	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:
STL Richland Richland Wa.	Key: In - Initial Amt, fi - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktail Added	Page 1					ISV - Insufficient Volume for Analysis WO Cnt: 7 Prep_SamplePrep v4.8.26	

4/3/2007 1:52:52 PM		Sample Preparation/Analysis					Balance Id:1120373922			
108302, Fluor Hanford Inc Hanford Inc		, Flour	AH Pu/241 PrpRC5013/5077, SepRC5010(5039) SP Plutonium-241 by Liquid Scint			Pipet #: _____				
AnalyDueDate: 03/23/2007		SI CLIENT: HANFORD					Sep1 DT/Tm Tech: _____			
Batch: 7087198 SOIL		pCi/g	PM, Quote: SA , 50639					Sep2 DT/Tm Tech: _____		
SEQ Batch, Test: None								Prep Tech: , WoodT		
Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:		
8 JQNT2-2-AD	1.01g,in			160						
J7C080251-7-SAMP										
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:	
9 JRV55-1-AA-B	1.09g,in			4/3/07 JRW						
J7C280000-198-BLK										
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
10 JRV55-1-AC-C	1.01g,in	241B0009								
J7C280000-198-LCS		4/3/07 4/3/07								
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
11 JRV55-1-AD-BX	1.05g,in									
J7C280000-198-MBLK										
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
12 JRV55-1-AE-CM	1.01g,in	241B0009								
J7C280000-198-MLCS		241B0010 4/3/07 JRW								
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
13 JRV55-1-AF-BN										
J7C280000-198-IBLK										
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	
14 JRV55-1-AG-BN										
J7C280000-198-IBLK										
03/07/2007 08:37	AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:	

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailled Added

ISV - Insufficient Volume for Analysis

WO Cnt: 14

Prep_SamplePrep v4.8.26

STL RICHLAND	Sample Preparation/Analysis										Balance Id:		
	AH Pu241 PrpRC5013/5077, SepRC5010(5039) SP Plutonium-241 by Liquid Scint										Pipet #:		
	AnalyDueDate: 03/23/2007 51 CLIENT: HANFORD										Sep1 DT/Tm Tech:		
	Batch: 7087198 pCi/g SEQ Batch, Test: None										Sep2 DT/Tm Tech:		
											Prep Tech:		
	Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:				
	Comments: Samples have been muffled 9/3/07												
	All Clients for Batch: 108302, Fluor Hanford Inc												
	Flour Hanford Inc , SA , 50639												
	UQNR31AH-DUP Constituent List:												
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35		
URV551AA-BLK:													
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35		
URV551AC-LCS:													
Pu-239	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	Pu-241	RDL:15	pCi/g	LCL:70	UCL:130	RPD:35		
Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35								
URV551AD-MBLK:													
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35		
URV551AE-MLCS:													
Pu-239	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	Pu-241	RDL:15	pCi/g	LCL:70	UCL:130	RPD:35		
Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35								
URV551AF-IBLK:													
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35		
URV551AG-IBLK:													
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35		
UQNR31AH-DUP Calc Info:													
Uncert Level (#s): 2	Decay to SaDt: Y	B1k Subt.: N	Sci.Not.: Y	ODRs: B									
URV551AA-BLK:													
Uncert Level (#s): 2	Decay to SaDt: Y	B1k Subt.: N	Sci.Not.: Y	ODRs: B									
URV551AC-LCS:													
Uncert Level (#s): 2	Decay to SaDt: Y	B1k Subt.: N	Sci.Not.: Y	ODRs: B									
URV551AD-MBLK:													
Uncert Level (#s): 2	Decay to SaDt: Y	B1k Subt.: N	Sci.Not.: Y	ODRs: B									
URV551AE-MLCS:													
Uncert Level (#s): 2	Decay to SaDt: Y	B1k Subt.: N	Sci.Not.: Y	ODRs: B									
URV551AF-IBLK:													
Uncert Level (#s): 2	Decay to SaDt: Y	B1k Subt.: N	Sci.Not.: Y	ODRs: B									
STL Richland	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2										Page 3	ISV - Insufficient Volume for Analysis	WO Cnt: 14
Richland Wa.	pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailled Added											Prop_SamplePrep v4.8.26	

Sample Preparation/Analysis								Balance Id:1120373922	
4/3/2007 1:52:30 PM 108302, Fluor Hanford Inc Hanford Inc		, Flour	6A Pu PrpRC5013/RC5019, SepRC5010(5039) SO Plutonium-238,239/40 by Alpha Spec						Pipet #: _____
AnalyDueDate: 03/23/2007		51 CLIENT: HANFORD						Sep1 DT/Tm Tech: _____	
Batch: 7087168 SOIL		pCi/g	PM, Quote: SA , 50639				Sep2 DT/Tm Tech: _____		
SEQ Batch, Test: None		Prep Tech: ,WoodT							
Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:	
1 JQNR3-1-AG-X J7C080251-1-DUP	1.02g,in	PUTC10612 03/13/07,pd 08/04/06,r	200						
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
2 JQNR3-3-AC J7C080251-1-SAMP	1.01g,in	PUTC10613 03/13/07,pd 08/04/06,r							
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
3 JQNT-2-AC J7C080251-2-SAMP	1.03g,in	PUTC10614 03/13/07,pd 08/04/06,r	4 3 07						
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2	18W				Scr:	Alpha:	Beta:
4 JQNT-2-AC J7C080251-3-SAMP	1.09g,in	PUTC10615 03/13/07,pd 08/04/06,r							
03/07/2007 12:15	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
5 JQNTM-2-AC J7C080251-4-SAMP	1.04g,in	PUTC10616 03/13/07,pd 08/04/06,r							
03/07/2007 12:52	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
6 JQNTQ-2-AC J7C080251-5-SAMP	1.03g,in	PUTC10617 03/13/07,pd 08/04/06,r							
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:
7 JQNTT-3-AC J7C080251-6-SAMP	1.02g,in	PUTC10618 03/13/07,pd 08/04/06,r							
03/01/2007 14:10	AmtRec: 2X60ML	#Containers: 2					Scr:	Alpha:	Beta:

STL Richland Key: In - Initial Amt, fl - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2
 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, cl-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Prep_SamplePrep v4.8.26

STL RICHLAND	4/3/2007 1:52:32 PM	Sample Preparation/Analysis						Balance Id:1120373922			
	108302, Fluor Hanford Inc Hanford Inc	, Flour	6A Pu PrpRC5013/RC5019, SepRC5010(5039) SO Plutonium-238,239/40 by Alpha Spec				Pipet #: _____				
	AnalyDueDate: 03/23/2007		5I CLIENT: HANFORD				Sep1 DT/Tm Tech: _____				
	Batch: 7087168 SOIL	pCi/g	PM, Quote: SA , 50639				Sep2 DT/Tm Tech: _____				
	SEQ Batch, Test: None						Prep Tech: ,WoodT				
	Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:		
	8 JQNT2-2-AC 	1.01g,in	PUTC10619 03/13/07, pd 08/04/06,r	200							
	03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2				Scr:	Alpha:	Beta:		
	9 JRVON-1-AA-B 	1.09g,in	PUTC10620 03/13/07, pd 08/04/06,r								
	03/07/2007 08:37	AmtRec:	#Containers: 1	4 3 07 	88W		Scr:	Alpha:	Beta:		
10 JRVON-1-AC-C 	1.01g,in	PUSK0690 03/13/07, pd 08/04/06,r									
03/07/2007 08:37	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:			
11 JRVON-1-AD-BX 	1.05g,in	PUTC10621 03/13/07, pd 08/04/06,r									
03/07/2007 08:37	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:			
12 JRVON-1-AE-CM 	1.01g,in	PUSK0691 03/13/07, pd 08/04/06,r									
03/07/2007 08:37	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:			
Comments: Samples have been muffed 4/3/07 88W											
All Clients for Batch: 108302, Fluor Hanford Inc Fluor Hanford Inc SA , 50639											
JQNR31AG-DDP Constituent List: Pu-238 RDL:1 pCi/g LCL: UCL: RPD: Pu-239 RDL:1 pCi/g LCL:70 UCL:130 RPD:35											
STL Richland Key: in - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added					Page 2 ISV - Insufficient Volume for Analysis					WO Cnt: 12	
										Prep_SamplePrep v4.8.28	

STL RICHLAND D	4/3/2007 1:52:38 PM	Sample Preparation/Analysis								Balance Id:1120373922		
	6A Pu PrpRC5013/RC5019, SepRC5010(5039) SO Plutonium-238,239/40 by Alpha Spec SI CLIENT: HANFORD								Pipet #: _____			
	AnalyDueDate: 03/23/2007								Sep1 DT/Tm Tech: _____			
	Batch: 7087168 pCi/g SEQ Batch, Test: None								Sep2 DT/Tm Tech: _____			
									Prep Tech: ,WoodT			
	Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:			
	Pu-242 URVON1AA-BLK:	RDL: pCi/g	LCL:20	UCL:105	RPD:35							
	Pu-238 Pu-242 URVON1AC-LCS:	RDL:1 pCi/g	LCL: pCi/g	UCL:105	RPD:35	PU-239	RDL:1	pCi/g	LCL:	UCL:	RPD:	
	Pu-239 URVON1AD-MBLK:	RDL:1 pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35	
	Pu-238 Pu-242 URVON1AE-MLCS:	RDL:1 pCi/g	LCL: pCi/g	UCL:105	RPD:35	PU-239	RDL:1	pCi/g	LCL:	UCL:	RPD:	
Pu-239 JQHR31AG-DUP Calc Info: Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B	RDL:1 pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:	pCi/g	LCL:20	UCL:105	RPD:35		
URVON1AA-BLK: Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B												
URVON1AC-LCS: Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B												
URVON1AD-MBLK: Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B												
URVON1AE-MLCS: Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B												
Approved By _____ Date: _____												

4/10/2007 12:56:38 PM 108302, Fluor Hanford Inc Hanford Inc AnalyDueDate: 03/23/2007		Sample Preparation/Analysis AH Pu/241 PrpRC5013/5077, SepRC5010(5039) SP Plutonium-241 by Liquid Scint SI CLIENT: HANFORD				Balance Id:1120373922 Pipet #: _____ Pri Client: Sep1 DT/Tm Tech: Sep2 DT/Tm Tech: Prep Tech: ,WoodT		
Batch: 7100160 SOIL SEQ Batch, Test: None		pCi/g PM, Quote: SA , 50639						
Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JQNR3-2-AH-X J7C080251-1-DUP	1.02g,in			100				
03/07/2007 08:37	Amt/Rec: 2X60ML	#Containers: 2					Scr:	Alpha:
2 JQNR3-3-AD J7C080251-1-SAMP	1.02g,in							Beta:
03/07/2007 08:37	Amt/Rec: 2X60ML	#Containers: 2					Scr:	Alpha:
3 JQNT-3-AD J7C080251-2-SAMP	1.04g,in							Beta:
03/07/2007 09:37	Amt/Rec: 2X60ML	#Containers: 2					Scr:	Alpha:
4 JQNT-3-AD J7C080251-3-SAMP	1.08g,in							Beta:
03/07/2007 12:15	Amt/Rec: 2X60ML	#Containers: 2					Scr:	Alpha:
5 JQNTM-3-AD J7C080251-4-SAMP	1.07g,in							Beta:
03/07/2007 12:52	Amt/Rec: 2X60ML	#Containers: 2					Scr:	Alpha:
6 JQNTQ-3-AD J7C080251-5-SAMP	1.05g,in							Beta:
03/07/2007 09:37	Amt/Rec: 2X60ML	#Containers: 2					Scr:	Alpha:
7 JQNTT-3-AD J7C080251-8-SAMP	1.03g,in							Beta:
03/01/2007 14:10	Amt/Rec: 2X60ML	#Containers: 2					Scr:	Alpha:
STL Richland Richland Wa.		Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec - Enrichment Cell, ct - Cocktailed Added				ISV - Insufficient Volume for Analysis WO Cnt: 7 Prep_SamplePrep v4.8.26		

4/10/2007 12:56:40 PM		Sample Preparation/Analysis				Balance Id:1120373922		
108302, Fluor Hanford Inc Hanford Inc		, Flour	AH Pu/241 PrpRC5013/5077, SepRC5010(5039) SP Plutonium-241 by Liquid Scint		Pipet #: _____			
AnalyDueDate: 03/23/2007		5I CLIENT: HANFORD				Sep1 DT/Tm Tech: _____		
Batch: 7100160 SOIL		pCi/g	PM, Quote: SA , 50639		PFU _____ Sep2 DT/Tm Tech: _____			
SEQ Batch, Test: None						Prep Tech: ,WoodT		
Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JQNT2-3-AD		1.05g,in		100				
J7C080251-7-SAMP								
03/07/2007 09:37		AmtRec: 2X60ML	#Containers: 2			Scr: _____	Alpha: _____	Beta: _____
9 JTLPJ-1-AA-B		1.00g,in						
J7D100000-160-BLK								
03/07/2007 08:37		AmtRec: _____	#Containers: 1			Scr: _____	Alpha: _____	Beta: _____
10 JTLPJ-1-AC-C		1.00g,in	241B0018 04/09/07,pd 09/10/04,r					
J7D100000-160-LCS								
03/07/2007 08:37		AmtRec: _____	#Containers: 1	100		Scr: _____	Alpha: _____	Beta: _____
11 JTLPJ-1-AD-BX		1.04g,in						
J7D100000-160-MBLK								
03/07/2007 08:37		AmtRec: _____	#Containers: 1			Scr: _____	Alpha: _____	Beta: _____
12 JTLPJ-1-AE-CM		1.05g,in	241B0018 04/10/07,pd 09/10/04,r					
J7D100000-160-MLCS								
03/07/2007 08:37		AmtRec: _____	#Containers: 1			Scr: _____	Alpha: _____	Beta: _____
13 JTLPJ-1-AF-BN								
J7D100000-160-IBLK								
03/07/2007 08:37		AmtRec: _____	#Containers: 1			Scr: _____	Alpha: _____	Beta: _____
14 JTLPJ-1-AG-BN								
J7D100000-160-IBLK								
03/07/2007 08:37		AmtRec: _____	#Containers: 1			Scr: _____	Alpha: _____	Beta: _____

STL RICHLAND	4/10/2007 12:56:48 PM		Sample Preparation/Analysis						Balance Id: _____																																																																																																																																																																																																																																																																																																																																																
			AH Pu/241 PrpRC5013/5077, SepRC5010(5039) SP Plutonium-241 by Liquid Scint						Pipet #: _____																																																																																																																																																																																																																																																																																																																																																
	AnalyDueDate: 03/23/2007		S1 CLIENT: HANFORD						Sep1 DT/Tm Tech: _____																																																																																																																																																																																																																																																																																																																																																
	Batch: 7100160		pCi/g						Sep2 DT/Tm Tech: _____																																																																																																																																																																																																																																																																																																																																																
	SEQ Batch, Test: None								Prep Tech: _____																																																																																																																																																																																																																																																																																																																																																
	Work Order, Lot, Sample Date/Time		Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:																																																																																																																																																																																																																																																																																																																																															
	Comments:																																																																																																																																																																																																																																																																																																																																																								
	<p>All Clients for Batch: 108302, Fluor Hanford Inc</p> <p>Flour Hanford Inc , SA , 50639</p> <p>JQNR32AH-DUP Constituent List:</p> <table border="0"> <tr> <td>Pu-241</td> <td>RDL:15</td> <td>pCi/g</td> <td>LCL:</td> <td>UCL:</td> <td>RPD:</td> <td>Pu-242</td> <td>RDL:</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> </tr> <tr> <td colspan="12">JTLPJ1AA-BLK:</td> </tr> <tr> <td>Pu-241</td> <td>RDL:15</td> <td>pCi/g</td> <td>LCL:</td> <td>UCL:</td> <td>RPD:</td> <td>Pu-242</td> <td>RDL:</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> </tr> <tr> <td colspan="12">JTLPJ1AC-LCS:</td> </tr> <tr> <td>Pu-239</td> <td>RDL:</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> <td>Pu-241</td> <td>RDL:15</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> </tr> <tr> <td>Pu-242</td> <td>RDL:</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> <td colspan="12">JTLPJ1AD-MBLK:</td> </tr> <tr> <td>Pu-241</td> <td>RDL:15</td> <td>pCi/g</td> <td>LCL:</td> <td>UCL:</td> <td>RPD:</td> <td>Pu-242</td> <td>RDL:</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> </tr> <tr> <td colspan="12">JTLPJ1AE-MLCS:</td> </tr> <tr> <td>Pu-239</td> <td>RDL:</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> <td>Pu-241</td> <td>RDL:15</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> </tr> <tr> <td>Pu-242</td> <td>RDL:</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> <td colspan="12">JTLPJ1AF-IBLK:</td> </tr> <tr> <td>Pu-241</td> <td>RDL:15</td> <td>pCi/g</td> <td>LCL:</td> <td>UCL:</td> <td>RPD:</td> <td>Pu-242</td> <td>RDL:</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> </tr> <tr> <td colspan="12">JTLPJ1AG-IBLK:</td> </tr> <tr> <td>Pu-241</td> <td>RDL:15</td> <td>pCi/g</td> <td>LCL:</td> <td>UCL:</td> <td>RPD:</td> <td>Pu-242</td> <td>RDL:</td> <td>pCi/g</td> <td>LCL:70</td> <td>UCL:130</td> <td>RPD:35</td> </tr> <tr> <td colspan="12">JQNR32AH-DUP Calo Info:</td> </tr> <tr> <td>Uncert Level (#s):</td> <td>2</td> <td>Decay to SaDt: Y</td> <td>Blk Subt.: N</td> <td>Sci.Not.: Y</td> <td>ODRs: B</td> <td colspan="6"></td> </tr> <tr> <td colspan="12">JTLPJ1AA-BLK:</td> </tr> <tr> <td>Uncert Level (#s):</td> <td>2</td> <td>Decay to SaDt: Y</td> <td>Blk Subt.: N</td> <td>Sci.Not.: Y</td> <td>ODRs: B</td> <td colspan="6"></td> </tr> <tr> <td colspan="12">JTLPJ1AC-LCS:</td> </tr> <tr> <td>Uncert Level (#s):</td> <td>2</td> <td>Decay to SaDt: Y</td> <td>Blk Subt.: N</td> <td>Sci.Not.: Y</td> <td>ODRs: B</td> <td colspan="6"></td> </tr> <tr> <td colspan="12">JTLPJ1AD-MBLK:</td> </tr> <tr> <td>Uncert Level (#s):</td> <td>2</td> <td>Decay to SaDt: Y</td> <td>Blk Subt.: N</td> <td>Sci.Not.: Y</td> <td>ODRs: B</td> <td colspan="6"></td> </tr> <tr> <td colspan="12">JTLPJ1AE-MLCS:</td> </tr> <tr> <td>Uncert Level (#s):</td> <td>2</td> <td>Decay to SaDt: Y</td> <td>Blk Subt.: N</td> <td>Sci.Not.: Y</td> <td>ODRs: B</td> <td colspan="6"></td> </tr> <tr> <td colspan="12">JTLPJ1AF-IBLK:</td> </tr> <tr> <td>Uncert Level (#s):</td> <td>2</td> <td>Decay to SaDt: Y</td> <td>Blk Subt.: N</td> <td>Sci.Not.: Y</td> <td>ODRs: B</td> <td colspan="6"></td> </tr> <tr> <td colspan="12">JTLPJ1AG-IBLK:</td> </tr> <tr> <td>Uncert Level (#s):</td> <td>2</td> <td>Decay to SaDt: Y</td> <td>Blk Subt.: N</td> <td>Sci.Not.: Y</td> <td>ODRs: B</td> <td colspan="6"></td> </tr> </table>										Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	JTLPJ1AA-BLK:												Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	JTLPJ1AC-LCS:												Pu-239	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	Pu-241	RDL:15	pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	JTLPJ1AD-MBLK:												Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	JTLPJ1AE-MLCS:												Pu-239	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	Pu-241	RDL:15	pCi/g	LCL:70	UCL:130	RPD:35	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	JTLPJ1AF-IBLK:												Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	JTLPJ1AG-IBLK:												Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	JQNR32AH-DUP Calo Info:												Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B							JTLPJ1AA-BLK:												Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B							JTLPJ1AC-LCS:												Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B							JTLPJ1AD-MBLK:												Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B							JTLPJ1AE-MLCS:												Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B							JTLPJ1AF-IBLK:												Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B							JTLPJ1AG-IBLK:												Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B					
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35																																																																																																																																																																																																																																																																																																																																														
JTLPJ1AA-BLK:																																																																																																																																																																																																																																																																																																																																																									
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35																																																																																																																																																																																																																																																																																																																																														
JTLPJ1AC-LCS:																																																																																																																																																																																																																																																																																																																																																									
Pu-239	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	Pu-241	RDL:15	pCi/g	LCL:70	UCL:130	RPD:35																																																																																																																																																																																																																																																																																																																																														
Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	JTLPJ1AD-MBLK:																																																																																																																																																																																																																																																																																																																																																			
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35																																																																																																																																																																																																																																																																																																																																														
JTLPJ1AE-MLCS:																																																																																																																																																																																																																																																																																																																																																									
Pu-239	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	Pu-241	RDL:15	pCi/g	LCL:70	UCL:130	RPD:35																																																																																																																																																																																																																																																																																																																																														
Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35	JTLPJ1AF-IBLK:																																																																																																																																																																																																																																																																																																																																																			
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35																																																																																																																																																																																																																																																																																																																																														
JTLPJ1AG-IBLK:																																																																																																																																																																																																																																																																																																																																																									
Pu-241	RDL:15	pCi/g	LCL:	UCL:	RPD:	Pu-242	RDL:	pCi/g	LCL:70	UCL:130	RPD:35																																																																																																																																																																																																																																																																																																																																														
JQNR32AH-DUP Calo Info:																																																																																																																																																																																																																																																																																																																																																									
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B																																																																																																																																																																																																																																																																																																																																																				
JTLPJ1AA-BLK:																																																																																																																																																																																																																																																																																																																																																									
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B																																																																																																																																																																																																																																																																																																																																																				
JTLPJ1AC-LCS:																																																																																																																																																																																																																																																																																																																																																									
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B																																																																																																																																																																																																																																																																																																																																																				
JTLPJ1AD-MBLK:																																																																																																																																																																																																																																																																																																																																																									
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B																																																																																																																																																																																																																																																																																																																																																				
JTLPJ1AE-MLCS:																																																																																																																																																																																																																																																																																																																																																									
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B																																																																																																																																																																																																																																																																																																																																																				
JTLPJ1AF-IBLK:																																																																																																																																																																																																																																																																																																																																																									
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B																																																																																																																																																																																																																																																																																																																																																				
JTLPJ1AG-IBLK:																																																																																																																																																																																																																																																																																																																																																									
Uncert Level (#s):	2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B																																																																																																																																																																																																																																																																																																																																																				
STL Richland Richland Wa.		Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec - Enrichment Cell, ct - Cocktailed Added						ISV - Insufficient Volume for Analysis			WO Cnt: 14																																																																																																																																																																																																																																																																																																																																														
											Prep_SamplePrep v4.8.28																																																																																																																																																																																																																																																																																																																																														

4/10/2007 12:56:48 PM		Sample Preparation/Analysis						Balance Id:		
		AH Pu/241 PrpRC5013/5077, SepRC5010(5039)						Pipet #:		
		SP Plutonium-241 by Liquid Scint								
		51 CLIENT: HANFORD								
AnalyDueDate: 03/23/2007								Sep1 DT/Tm Tech:		
Batch: 7100160		pCi/g						Sep2 DT/Tm Tech:		
SEQ Batch, Test: None								Prep Tech:		
Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:		
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B						
JTLFJ1AG-TBLR:										
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B						
Approved By _____						Date: _____				
STL Richland Richland Wa.		Key: in - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec - Enrichment Cell, ct - Cocktailed Added						Page 4	ISV - Insufficient Volume for Analysis	WO Cnt: 14
										Prep_SamplePrep v4.8.26

3/15/2007 10:01:04 AM		Sample Preparation/Analysis							Balance Id:1120373922		
STL RICHLAND CITY WA	106302, Fluor Hanford Inc Hanford Inc	, Flour	AF Ni-63 PrpRC5013/5019, SepRC5069 S4 Nickel by ICP and Nickel-63 by Liquid S				Pipet #: _____				
			51 CLIENT: HANFORD				Sep1 DT/Tm Tech: _____				
AnalyDueDate: 03/23/2007		PM, Quote: SA , 50639							Sep2 DT/Tm Tech: _____		
Batch: 7067495 SOIL		pCi/g								Prep Tech: ,WoodT	
SEQ Batch, Test: None											
Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:	
1 JQNR3-1-AA J7C080251-1-SAMP	1.00g,in	1.00g	NITA2375 03/06/07	100							
03/07/2007 08:37	AmtRec: 2X60ML	#Containers: 2							Scr: Alpha: Beta:		
2 JQNT-E-1-AA J7C080251-2-SAMP	1.06g,in	1.06g	NITA2374 03/06/07								
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2							Scr: Alpha: Beta:		
3 JQNT-E-1-AE-X J7C080251-2-DUP	1.06g,in	1.06g	NITA2373 03/06/07								
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2							Scr: Alpha: Beta:		
4 JQNT-H-1-AA J7C080251-3-SAMP	1.02g,in	1.02g	NITA2372 03/06/07	315/07							
03/07/2007 12:15	AmtRec: 2X60ML	#Containers: 2							Scr: Alpha: Beta:		
5 JQNT-M-1-AA J7C080251-4-SAMP	1.01g,in	1.01g	NITA2371 03/06/07								
03/07/2007 12:52	AmtRec: 2X60ML	#Containers: 2							Scr: Alpha: Beta:		
6 JQNT-Q-1-AA J7C080251-5-SAMP	1.06g,in	1.06g	NITA2370 03/06/07								
03/07/2007 09:37	AmtRec: 2X60ML	#Containers: 2							Scr: Alpha: Beta:		
7 JQNT-T-1-AA J7C080251-8-SAMP	1.09g,in	1.09g	NITA2369 03/06/07								
03/07/2007 14:10	AmtRec: 2X60ML	#Containers: 2							Scr: Alpha: Beta:		
STL Richland Richland Wa.		Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, a1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added				ISV - Insufficient Volume for Analysis				WO Cnt: 7 Prep_SamplePrep v4.8.26	

STL RICHLAND	3/15/2007 10:01:06 AM	Sample Preparation/Analysis						Balance Id:1120373922			
	108302, Fluor Hanford Inc Hanford Inc	, Flour	AF Ni-63 PrpRC5013/5019, SepRC5069 S4 Nickel by ICP and Nickel-63 by Liquid Scint SI CLIENT: HANFORD						Pipet #:		
AnalyDueDate: 03/23/2007								Sep1 DT/Tm Tech:			
Batch: 7067495 SOIL		pCi/g	PM, Quote: SA , 50639						Sep2 DT/Tm Tech:		
SEQ Batch, Test: None									Prep Tech: ,Woodt		
Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:	
8 JQNT2-1-AA J7C080251-7-SAMP		1.13g,in	1.13g	NITA2368 03/06/07		100					
03/07/2007 09:37		AmtRec: 2X60ML	#Containers: 2				Scr:	Alpha:	Beta:		
9 JQPKXK-1-AA-B J7C080000-495-BLK		1.04g,in	1.04g	NITA2367 03/06/07							
03/07/2007 09:37		AmtRec:	#Containers: 1		3/15/07		Scr:	Alpha:	Beta:		
10 JQPKXK-1-AC-C J7C080000-495-LCS		1.00g,in	1.00g	NISA0735 10/27/06,pd 05/16/05,r			88W				
03/07/2007 09:37		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:		
11 JQPKXK-1-AD-BN J7C080000-495-IBLK		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:		
03/07/2007 09:37		AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:		
Comments:	Muffled and microwave bombarded samples 3/15/07 jfw										
All Clients for Batch: 108302, Fluor Hanford Inc Flour Hanford Inc SA , 50639											
JQNR31AA-SAMP Constituent List: Ni-63 RDL:30 pCi/g LCL:70 UCL:130 RPD:35											
JQPKXK1AA-BLK: Ni-63 RDL:30 pCi/g LCL: UCL: RPD:											
JQPKXK1AC-LCS: Ni-63 RDL:30 pCi/g LCL:70 UCL:130 RPD:35											
JQPKXK1AD-IBLK: Ni-63 RDL:30 pCi/g LCL: UCL: RPD:											
STL Richland Richland Wa.	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added				Page 2			ISV - Insufficient Volume for Analysis			WO Cnt: 11
											Prep_SamplePrep v4.8.26

4/16/2007 1:10:09 PM

ICOC Fraction Transfer/Status Report

By Date: 4/16/2006, 4/21/2007, Batch: '7100159', User: *ALL Order By Date/Time/Accepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7100159				
AC	CalcC	FABREM	4/11/2007 5:01:27 PM	
SC		antonsonl	IsBatched	4/10/2007 8:37:05 AM
SC		FABREM	Sep2C	4/11/2007 5:01:27 PM
SC		DAWKINSO	InCnt1	4/11/2007 5:31:36 PM
SC		DAWKINSO	CalcC	4/12/2007 8:14:02 PM
AC		DAWKINSO		4/11/2007 5:31:36 PM
AC		DAWKINSO		4/12/2007 8:14:02 PM

AC: Accepting Entry, SC: Status Change

STL Richland
Richland Wa.Grp Rec Cnt:3
ICOCFractions v4.8.26

SIL RICHLAND

4/16/2007 12:55:00 PM

ICOC Fraction Transfer/Status Report

ByDate: 4/16/2006, 4/21/2007, Batch: '7100160', User: 'ALL Order By DateTimeAccepting'

Q	Batch	Work Ord	CurStatus	Accepting	Comments
7100160					
AC		CalcC	HarveyK	4/13/2007 3:35:38 PM	
SC			antonson!	IsBatched	4/10/2007 8:37:05 AM
SC			HarveyK	Sep1C	4/13/2007 3:35:38 PM
SC			DAWKINSO	InCnt1	4/13/2007 3:45:42 PM
SC			BlackCL	CaloC	4/16/2007 9:13:01 AM
AC			DAWKINSO		4/13/2007 3:45:42 PM
AC			BlackCL		4/16/2007 9:13:01

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

STL RICHLAND

Page 1

Grp Rec Cnt:3
ICOCPfractions v4.8.26

3/27/2007 11:54:52 AM

ICOC Fraction Transfer/Status Report

By Date: 3/27/2006, 4/1/2007, Batch: '7067495', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting	Comments
7067495					
AC		CalcC	WoodT	3/12/2007 5:57:11 PM	
SC		wagarr	IsBatched	3/8/2007 4:13:35 PM	ICOC_RADCALC v4.8.26
SC		WoodT	InPrep	3/12/2007 5:57:11 PM	RICH-RC-5013 REVISION 5
SC		WoodT	Prep2C	3/15/2007 10:01:09 AM	RICH-RC-5019 REVISION 5
SC		FABREM	Sep1C	3/20/2007 9:20:06 PM	RICH-RC-5069 REVISION 5
SC		DAWKINSO	InCnt1	3/20/2007 9:43:59 PM	RICH-RD-0001 REVISION 3
SC		BlackCL	CalcC	3/23/2007 6:57:11 AM	RICH-RD-0001 REVISION 3
AC		WoodT		3/15/2007 10:01:09	
AC		FABREM		3/20/2007 9:20:06 PM	
AC		DAWKINSD		3/20/2007 9:43:59 PM	
AC		BlackCL		3/23/2007 6:57:11	

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

STL RICHLAND

Page 1

Grp Rec Cnt:5
ICOCFractions v4.8.26

52